



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-8TW-A-POE 4000K AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18091.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-P31-8TW-A-PoE 4000k AMBIENT ONLY
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,DIRECT
 [_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	27.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1511	1547	1540
55	1282	1380	1357
65	1070	1177	937
75	815	742	530
85	622	465	411

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1327.338	1327.338	1327.338	1327.338	1327.338
5	1321.712	1321.712	1320.742	1320.160	1320.160
10	1297.656	1296.104	1293.776	1290.866	1290.090
15	1244.306	1241.396	1235.770	1230.532	1229.175
20	1216.759	1214.043	1205.895	1196.583	1193.673
25	1124.221	1122.475	1113.939	1104.821	1097.838
30	1037.892	1034.982	1026.058	1014.224	1006.658
35	953.309	952.339	946.325	934.491	930.611
40	851.847	853.787	854.563	846.221	843.311
45	746.118	756.012	763.966	763.966	760.280
50	623.705	635.151	652.029	659.595	654.939
55	513.320	527.870	552.508	557.164	543.584
60	406.039	422.141	450.077	420.201	401.771
65	315.830	334.841	347.451	303.220	276.642
70	229.888	251.228	238.424	189.343	169.555
75	147.245	161.019	134.053	104.371	95.835
80	87.299	89.239	69.839	57.618	55.678
85	37.830	33.562	28.324	25.414	25.026
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	476.47	N.A.	15.20
0-30	990.13	N.A.	31.50
0-40	1579.33	N.A.	50.30
0-60	2642.97	N.A.	84.10
0-80	3106.32	N.A.	98.90
0-90	3142.09	N.A.	100.00
10-90	3016.9	N.A.	96.00
20-40	1102.86	N.A.	35.10
20-50	1684.99	N.A.	53.60
40-70	1381.4	N.A.	44.00
60-80	463.35	N.A.	14.70
70-80	145.59	N.A.	4.60
80-90	35.77	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3142.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.19
10-20	351.28
20-30	513.66
30-40	589.19
40-50	582.14
50-60	481.51
60-70	317.75
70-80	145.59
80-90	35.77
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	133	133	133	133	130	130	130	130	124	124	124	119	119	119	114	114	114	112
1	123	118	113	110	120	115	111	108	111	107	104	106	104	101	102	100	98	96
2	112	104	97	91	110	102	95	90	98	92	88	94	90	86	91	87	84	81
3	103	92	83	76	100	90	82	76	87	80	74	84	78	73	81	76	72	70
4	95	82	73	66	92	80	72	65	78	70	64	75	69	63	73	67	62	60
5	87	74	64	57	85	72	63	57	70	62	56	68	61	55	66	60	55	53
6	81	67	57	50	79	65	56	50	64	55	49	62	54	49	60	54	49	46
7	75	61	51	44	73	60	51	44	58	50	44	56	49	44	55	48	43	41
8	70	55	46	40	68	55	46	40	53	45	39	52	45	39	51	44	39	37
9	66	51	42	36	64	50	42	36	49	41	36	48	41	36	47	40	35	33
10	62	47	39	33	60	47	38	33	45	38	33	44	37	32	43	37	32	30

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

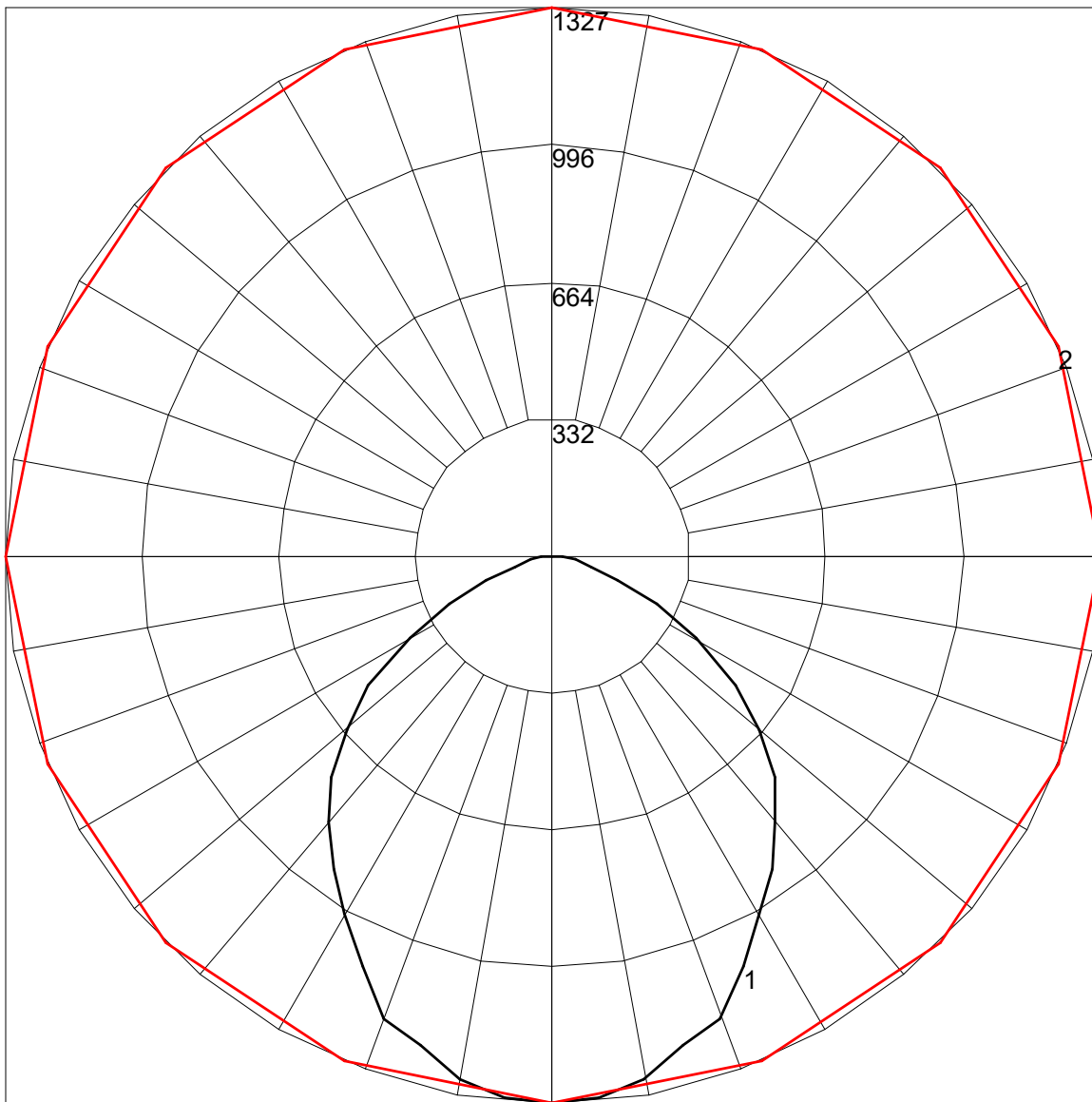
X=2H	Y=2H	12.3	13.9	12.7	14.2	14.5	12.5	14.1	12.9	14.4	14.7
	3H	13.9	15.3	14.3	15.6	16.0	13.5	14.9	13.9	15.2	15.6
	4H	14.4	15.7	14.8	16.0	16.4	13.7	15.0	14.1	15.4	15.8
	6H	14.7	15.9	15.1	16.3	16.7	13.9	15.1	14.3	15.5	15.8
	8H	14.8	16.0	15.2	16.4	16.8	13.9	15.1	14.3	15.5	15.9
	12H	14.9	16.0	15.3	16.4	16.8	13.9	15.0	14.4	15.4	15.9

UGR Viewed Endwise

4H	2H	13.0	14.3	13.4	14.6	15.0	13.1	14.4	13.5	14.8	15.2
	3H	14.7	15.8	15.1	16.2	16.6	14.3	15.4	14.7	15.8	16.2
	4H	15.3	16.3	15.8	16.7	17.2	14.6	15.5	15.0	16.0	16.4
	6H	15.8	16.6	16.2	17.1	17.5	14.8	15.6	15.2	16.1	16.5
	8H	15.9	16.7	16.4	17.1	17.6	14.8	15.6	15.3	16.1	16.5
	12H	16.0	16.7	16.5	17.2	17.7	14.9	15.6	15.3	16.1	16.5
8H	4H	15.5	16.3	15.9	16.7	17.2	14.8	15.6	15.2	16.0	16.5
	6H	16.0	16.7	16.5	17.2	17.6	15.1	15.7	15.5	16.2	16.7
	8H	16.2	16.8	16.7	17.3	17.8	15.1	15.7	15.7	16.2	16.7
	12H	16.4	16.9	16.9	17.4	17.9	15.3	15.8	15.8	16.3	16.8
12H	4H	15.4	16.2	15.9	16.6	17.1	14.8	15.5	15.3	16.0	16.5
	6H	16.0	16.6	16.5	17.1	17.6	15.1	15.7	15.6	16.1	16.7
	8H	16.3	16.8	16.8	17.3	17.8	15.2	15.7	15.7	16.2	16.8

Maximum UGR = 17.9

POLAR GRAPH



Maximum Candela = 1327.338 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)